

In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please cancel claims 16, 20, 24, 25, 32 and 36 without prejudice or disclaimer.

Please amend pending claims 1, 6, and 12 as noted below. Support for these amendments can be found at least on page 14, lines 21-27.

1. (Currently Amended) An isolated nucleic acid molecule, comprising:

(a) nucleic acid sequences ~~molecules~~ which hybridize under stringent hybridization conditions, wherein the stringent hybridization conditions are hybridization at 65°C in hybridization buffer (3.5 x SSC, 0.02% Ficoll, 0.02% polyvinyl pyrrolidone, 0.02% Bovine Serum Albumin, 2.5mM NaH₂PO₄ (pH 7), 0.5% SDS, 2mM EDTA), wherein SSC is 0.15M sodium chloride/0.015M sodium citrate, pH7; wherein SDS is sodium dodecyl sulphate, and EDTA is ethylenediaminetetracetic acid, washed at 2 x SSC at room temperature and then at 0.1 x SSC/0.1 x SDS at temperatures up to 68°C, to a nucleic acid molecule selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, and SEQ ID NO:29, and SEQ ID NO:31, and which code for a SOC/CRAC calcium channel polypeptide;

(b) deletions, additions and substitutions of (a) which hybridize under stringent hybridization conditions, to a nucleic acid molecule selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, and SEQ ID NO:29, and SEQ ID NO:31, which code for a respective SOC/CRAC polypeptide;

(c) nucleic acid sequences ~~molecules~~ that differ from the nucleic acid sequences ~~molecules~~ of (a) or (b) in codon sequence due to the degeneracy of the genetic code, and or

(d) complements of (a), (b) or (c).

2. (Withdrawn) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule comprises SEQ ID NO:1.

3. (Withdrawn) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule comprises SEQ ID NO:27.

4. (Original) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule comprises SEQ ID NO:29.

5. (Withdrawn) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule comprises SEQ ID NO:31.

6. (Currently Amended) An isolated nucleic acid molecule selected from the group consisting of

(a) a ~~unique~~ fragment of a nucleic acid molecule selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:29, and SEQ ID NO:31,

(b) complements of (a),
provided that the ~~unique~~ fragment includes a sequence of contiguous nucleotides at least 12 nucleotides in length, which is not identical to any sequence selected from a sequence group consisting of

- (1) sequences having the SEQ. ID NOS. or GenBank accession numbers of Table I,
- (2) complements of (1), and
- (3) fragments of (1) and (2).

7. (Original) The isolated nucleic acid molecule of claim 6, wherein the sequence of contiguous nucleotides is selected from the group consisting of:

- (1) at least two contiguous nucleotides nonidentical to the sequence group,
- (2) at least three contiguous nucleotides nonidentical to the sequence group,
- (3) at least four contiguous nucleotides nonidentical to the sequence group,
- (4) at least five contiguous nucleotides nonidentical to the sequence group,
- (5) at least six contiguous nucleotides nonidentical to the sequence group,
- (6) at least seven contiguous nucleotides nonidentical to the sequence group.

8. (Original) The isolated nucleic acid molecule of claim 6, wherein the unique fragment has a size selected from the group consisting of at least: 8 nucleotides, 10 nucleotides, 12 nucleotides, 14 nucleotides, 16 nucleotides, 18 nucleotides, 20, nucleotides, 22 nucleotides, 24 nucleotides, 26 nucleotides, 28 nucleotides, 30 nucleotides, 50 nucleotides, 75 nucleotides, 100 nucleotides, and 200 nucleotides.

9. (Original) The isolated nucleic acid molecule of claim 6, wherein the molecule encodes a polypeptide which is immunogenic.

10-11. (Cancelled)

12. (Currently Amended) An isolated polypeptide encoded by the isolated nucleic acid molecule according to any one of claims 1 or 6, ~~wherein the polypeptide comprises a SOC/CRAC polypeptide (SEQ ID NO:30) or a unique fragment thereof.~~

13-33. (Cancelled)

34. (Original) A pharmaceutical composition comprising:
a pharmaceutically effective amount of an agent comprising of an isolated nucleic acid molecule of claim 1 or an expression product thereof, and
a pharmaceutically acceptable carrier.

35-37. (Cancelled)